EHR ADVISORY COMMITTEE MEETING
May 31 – June 1, 2018

Francisco Rodriguez

EHR AC Chair

Chancellor
L.A. Community College District

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DIRECTORATE FOR
EDUCATION & HUMAN RESOURCES

National Science Foundation

Jim Lewis
Acting Assistant Director
Education and Human Resources

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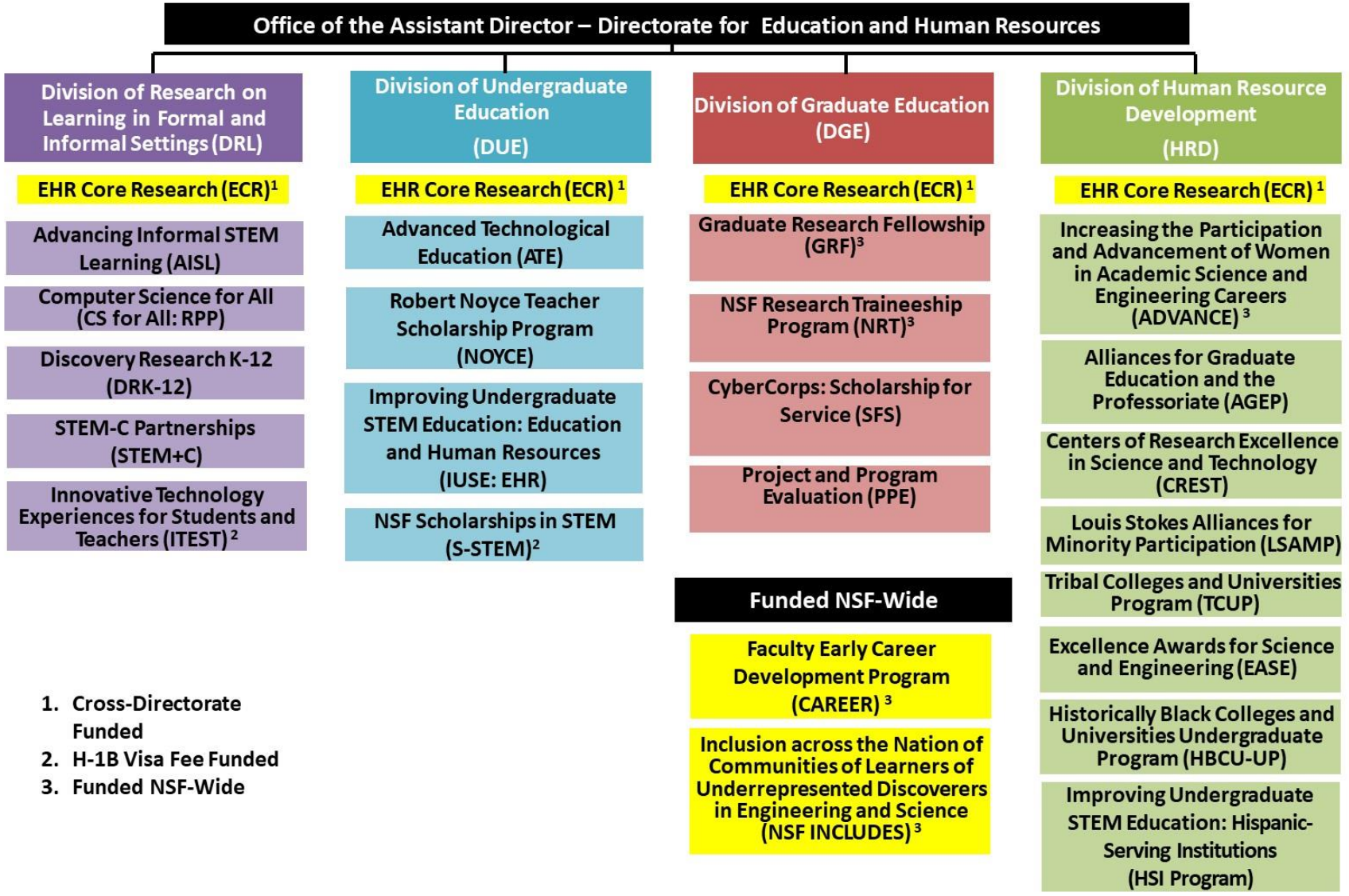
EHR Program Organization Chart



1. Cross-Directorate Funded
2. H-1B Visa Fee Funded
3. Funded NSF-Wide

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National Science Foundation Update

Jim Lewis
Acting Assistant Director
Education and Human Resources

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NSF Mission

“to promote the progress of science; to advance the national health, prosperity, and welfare; and to secure the national defense; and for other purposes”

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NSF INCLUDES

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10 Big Ideas for Future NSF Investments

Navigating the New Arctic
Improve Arctic observational tools to document rapid changes on multiple scales.

Harnessing Data for 21st Century Science and Engineering
Generate a world-wide data-enabled future for the U.S. through fundamental research and education in data science.

Work at the Human-Technology Frontier: Shaping the Future
Develop "smart" technologies and environments to enhance the human experience; assess their impact on human behavior and social systems.

RESEARCH IDEAS

Understanding the Rules of Life: Predicting Phenotype
Bridge the biggest gap in biological science by determining how the environment influences an organism's unique characteristics.

The Quantum Leap: Leading the Next Quantum Revolution
Develop ways to access and manipulate the behavior of matter and energy at very small scales to make the next generation technology more accurate and efficient.

Windows on the Universe: The Era of Multi-messenger Astrophysics
Extend our understanding of the cosmos by building on NSF's unique observational assets.

PROCESS IDEAS

Growing Convergent Research at NSF
Use ideas and technologies from widely diverse fields to bring about solutions to societal problems and profound questions.

NSF-Includes: Enhancing Science and Engineering through Diversity
Tap the innovation inherent in America's diversity to strengthen the U.S. science and engineering enterprise.

Mid-scale Research Infrastructure
Develop a nimble process to fund crucial scientific infrastructure projects that fall between traditional funding boundaries.

NSF 2050
Bold, forward-thinking research that transcends traditional approaches and pushes the frontiers of exploration.

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Convergence Accelerators

Harnessing Data for 21st Century Science and Engineering

The Future of Work at the Human-Technology Frontier

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STEM + C and DRK-12

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American Innovation and Competitiveness Act (AICA)

"The Director shall award grants on a competitive, merit-reviewed basis to Hispanic-serving institutions (as defined in section 502 of the Higher Education Act of 1965 (20 U.S.C. 1001a) to enhance the quality of undergraduate STEM education at such institutions and to increase the retention and graduation rates of students pursuing associate's or baccalaureate degrees in science, technology, engineering, and mathematics."

Enacted January 6, 2017

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Consolidated Appropriations Act, 2017, Public Law 115-31

"The agreement also directs NSF to establish an Hispanic Serving Institution (HSI) program at no less than $15,000,000 as authorized in 42 U.S.C. 186o-12. The agreement encourages NSF to use this program to build capacity at institutions of higher education that typically do not receive high levels of NSF grant funding."

Enacted May 5, 2017

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Establishing an HSI Program

- NSF announces plans for Hispanic Serving Institution Program – June 6, 2017
- Goals to establish the program:
  - Build capacity at Hispanic Serving Institutions
  - Focus on undergraduate HSIs
- A Subcommittee of our Advisory Committee comprised of HSI campus leaders provided advice regarding the solicitation.
- Dear Colleague Letter to fund conferences
- Solicitation Released (NSF 18-524)

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Dear Colleague Letter: Improving Undergraduate STEM Education in Hispanic Serving Institutions

NSF 17-092

Dear Colleagues:

With this Dear Colleague Letter (DCL), the National Science Foundation (NSF) is calling for submission of conference proposals to inform the design of NSF's new Hispanic-Serving Institution (HSI) program, to be established in fiscal year 2018. Proposed conferences are expected to result in the identification of the most critical challenges and opportunities regarding undergraduate STEM education at two-year and four-year Hispanic-Serving institutions of higher education, and potential actionable solutions that fall within NSF’s mission, policies, and practices.

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HSI Conference Awards

- University of California-Irvine – January 22-24, 2018
- University of Houston – February 14-16, 2018
  University of Arizona – November 18-20, 2017
- Nova Southeastern University, FL – December 11-12, 2017

Submissions received July 6, 2017

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HSI Conference Awards

- El Centro College, TX – February 27-28, 2018
- Laredo Community College, TX – March 21-23, 2018
- University of Texas-El Paso, TX – March 29-30, 2018;

  University of Miami, FL – April 26-27, 2018;

  American Society for Engineering Education, UT – date TBD
- California State University, CA – April 25-27, 2018
- Northwestern Illinois University, IL – May 3-4, 2018
- **CUNY City College, NY – May 23 - 25, 2018**
- University of Puerto Rico, PR – November 8-9, 2018

Submissions received September 30, 2017

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Listening to the Field

Three NSF Listening Sessions in mid-August 2017

- 300 Participants
- 100 Institutions

SACNAS Conference Listening Session

- 25 Participants/Students

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Lessons Learned from HSI Conferences

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HSI Solicitation

Improving Undergraduate STEM Education: Hispanic-Serving Institutions (HSI Program)

PROGRAM SOLICITATION
NSF 18-524

National Science Foundation

Directorate for Education & Human Resources
Division of Human Resource Development
Division of Undergraduate Education

Full Proposal Deadline(s) (due by 5 p.m. submitter's local time):

March 06, 2018

Posted December 7, 2017

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HSI Program Tracks

Track 1: Building Capacity

Track 2: HSIs New to NSF

Resource Hub

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News Release 18-001

NSF makes first awards through Hispanic-Serving Institutions Program

Funding will bolster STEM capacity at HSIs

Alexandra Coso Strong will lead an HSI Program conference on engineering education.

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HSIs and NSF INCLUDES

Design and Development Launch Pilot Lead Institutions

&

Partner Institutions

California State Polytechnic Univ-Pomona
California State University-Dominguez Hills
California State University-East Bay
California State University-San Bernardino
Central New Mexico Community College
Citrus College
City Colleges of Chicago-Malcolm X College
City College of NY - Dean of College of Eng.
CUNY City College
Florida International University
Merritt College
New Mexico State University-Dona Ana
New Mexico State University-Main Campus
Northern New Mexico College
Saddleback College
Texas State University
Truckee Meadows Community College
University of California-Merced
University of New Mexico-Los Alamos
University of the South Pacific, Marshall Is.
University of Puerto Rico-Carolina
University of Texas at San Antonio
University of Texas at El Paso

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NSF INCLUDES Update

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Design and Development Launch Pilots

- 70 Launch Pilots
- 760 Partners

Coordinat

- Provide increas communicatio interoperabilit support, and a the network of alliances.
- Blue-Ribbon Pa top proposals.

On-Ramps

- Summit held January 8-10
- Receiving proposals for conference
- Encouraging supplements to existing centers.
- DCL deadline April 16

Allia

- Proposa last wee under re

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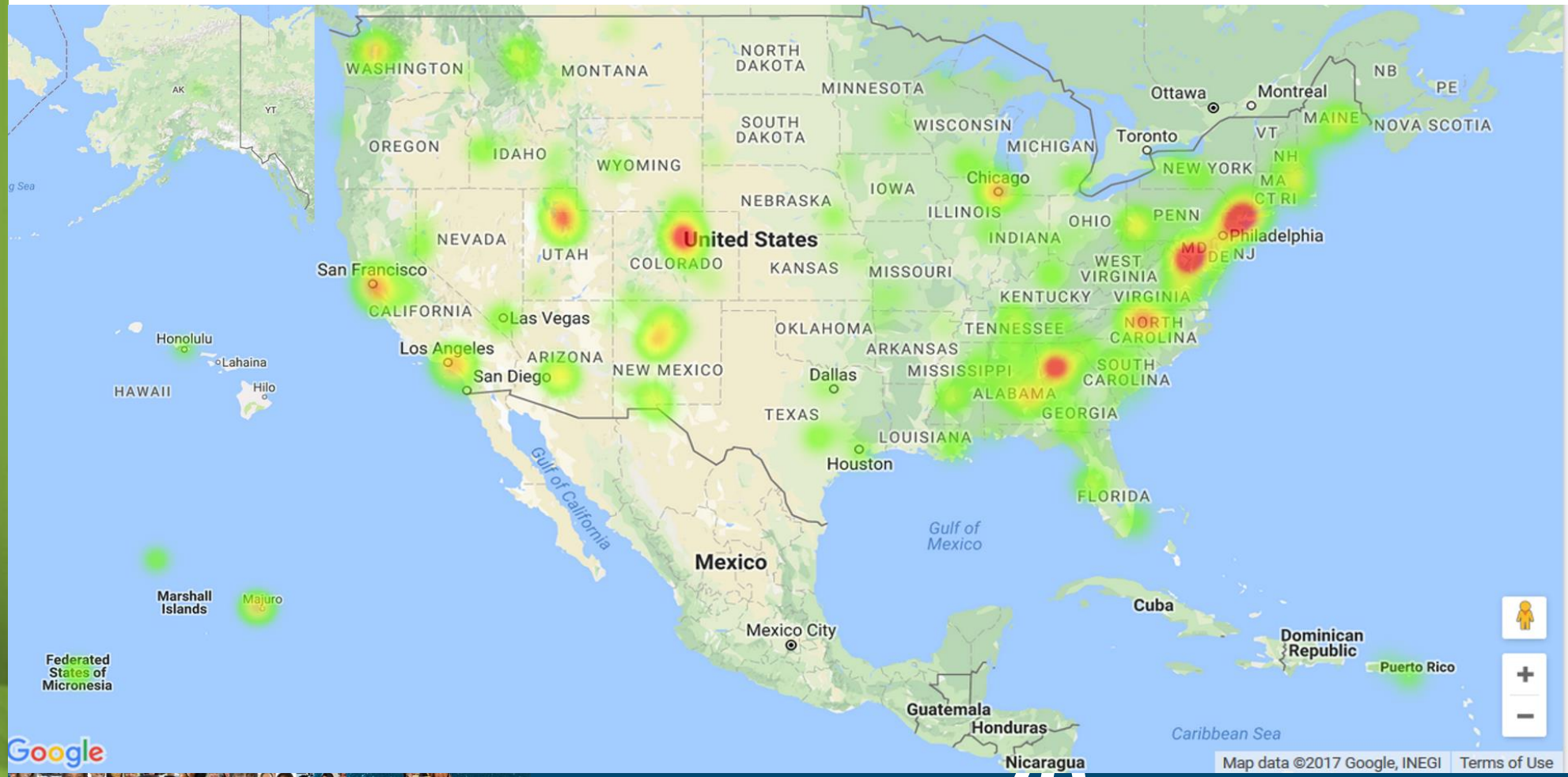
NSF INCLUDES



70

Launch Pilots Funded

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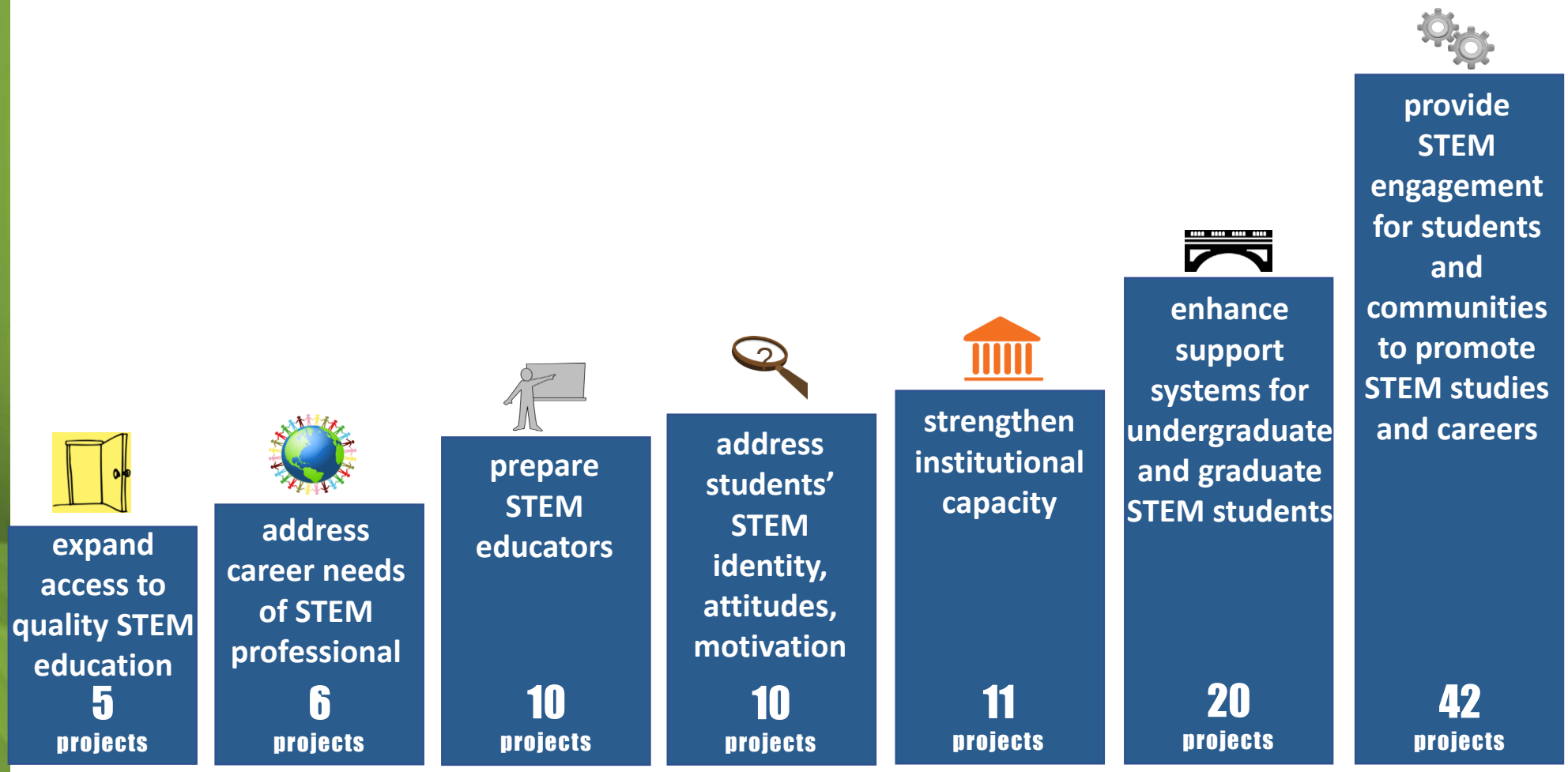
NSF

Launch Pilot Strategies

to address a particular broadening participation challenge



***Note**: Some projects have goals and objectives that fall into more than one category.*

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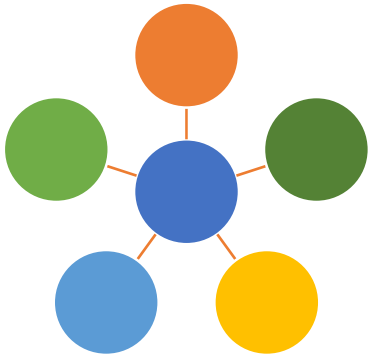
NSF INCLUDES IN FY 2018

On-Ramps

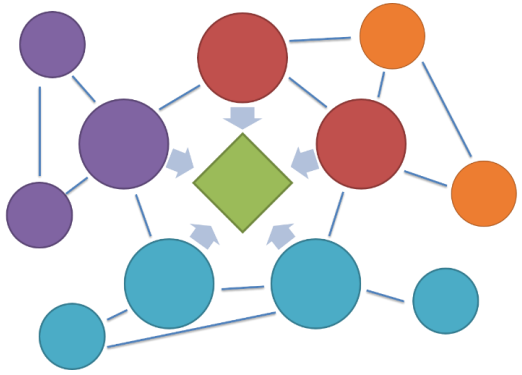
DCL NSF 17-111

Coordination Hub



Alliances

NSF 18-529



Launch Pilots from FY16 & FY 17

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Improving Undergraduate STEM Education: Education and Human Resources (IUSE: EHR)

PROGRAM SOLICITATION

NSF 17-590

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Robert Noyce Teacher Scholarship Program (Noyce)

Noyce (NSF 17-541)

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